

Wilcoxon Signed Ranks test.

KEEL non-parametric statistical module

May 9, 2011

Table 1: Ranks computed by the Wilcoxon test. The table contains 40 rows of data, each with 30 columns representing ranks. The rows are labeled with names and IDs in parentheses, such as 'IR (1)', 'Amnesia (2)', 'Ayresian (3)', 'CACC (4)', 'CAFD (5)', 'CIBZ (6)', 'ChMarec (8)', 'ClusterAnalysis (9)', 'DIBD (10)', 'Distance (11)', 'EqualFrequency (12)', 'Gabor (13)', 'Hexagram CIBZ (14)', 'FFD (15)', 'FUSINTER (16)', 'HDD (17)', 'HellingerBD (18)', 'Higgs (19)', 'IDD (21)', 'Kilobits (22)', 'MDLP (23)', 'MDDL (25)', 'MPC (26)', 'PKDD (28)', 'UCPD (28)', 'USD (29)', and 'Zebra (30)'. Each cell in the grid contains a numerical rank value.

Table 1: Ranks computed by the Wilcoxon test

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	
IR (1)	-																														
Anova (2)		-																													
Bayesian (3)			-																												
CACC (4)				-																											
CADD (5)					-																										
CAM (6)						-																									
Chi2 (7)							-																								
ChiMerge (8)								-																							
ClusterAnalysis (9)									-																						
DIBL (10)										-																					
Distance (11)											-																				
EqualFrequency (12)												-																			
EqualWidth (13)													-																		
Extended Chi2 (14)														-																	
FFD (15)															-																
FUSINTER (16)																-															
HDD (17)																	-														
HellingerBD (18)																		-													
Heter-Disc (19)																			-												
ID3 (20)																				-											
IDD (21)																					-										
Khops (22)																						-									
MDLP (23)																							-								
Modified Chi2 (24)																								-							
MODL (25)																									-						
MVD (26)																										-					
PKID (27)																											-				
UCPD (28)																												-			
USD (29)																													-		
Zeta (30)																														-	

Table 2: Summary of the Wilcoxon test. ●= the method in the row improves the method of the column. ○= the method in the column improves the method of the row. Upper diagonal of level significance $\alpha = 0.9$, Lower diagonal level of significance $\alpha = 0.95$

Method	$\alpha = 0.9$		$\alpha = 0.95$	
	+	\pm	+	\pm
1R	1	8	1	9
Ameva	10	29	9	29
Bayesian	2	8	2	11
CACC	7	27	5	28
CADD	0	1	0	1
CAIM	12	29	10	29
Chi2	9	29	9	29
ChiMerge	10	29	10	29
ClusterAnalysis	6	23	6	27
DIBD	2	6	2	8
Distance	8	25	7	26
EqualFrequency	10	29	9	29
EqualWidth	8	29	8	29
Extended Chi2	4	16	3	17
FFD	12	29	8	29
FUSINTER	17	29	15	29
HDD	6	26	5	28
HellingerBD	8	25	7	28
Heter-Disc	0	3	0	3
ID3	6	28	4	28
IDD	3	13	2	14
Khiops	9	29	9	29
MDLP	8	27	8	29
Modified Chi2	10	29	10	29
MODL	10	29	9	29
MVD	1	7	1	7
PKID	11	29	9	29
UCPD	2	12	2	15
USD	7	27	6	29
Zeta	12	29	9	29

Table 3: Wilcoxon test summary results